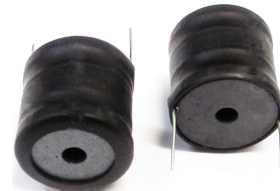


# THRU-HOLE DRUM CORE POWER INDUCTORS

AIRD-01



**RoHS**  
Compliant



21.0 x  $\phi$  16.5 mm

## FEATURES:

- Ferrite core with UL tube
- Wire wound construction
- High current, low DCR

## APPLICATIONS:

- Electronic Appliance
- Power Supplies
- TRIAC/SCR Control Circuits

## STANDARD SPECIFICATIONS

**Operating Temperature:** -25°C ~ +85°C

**Storage Temperature:** -25°C ~ +125°C

| Part Number | Inductance | Tolerance | DCR (Max) | Saturation Current (Max) | Temperature Rise Current (Max) |
|-------------|------------|-----------|-----------|--------------------------|--------------------------------|
| Units       | $\mu$ H    | %         | $\Omega$  | A                        | A                              |
| Symbol      | L          | K, M      | DCR       | Isat                     | Irms                           |
| AIRD-01-1R0 | 1.0        | K, M      | 0.003     | 87.0                     | 9.0                            |
| AIRD-01-1R2 | 1.2        | K, M      | 0.003     | 68.0                     | 9.0                            |
| AIRD-01-1R5 | 1.5        | K, M      | 0.004     | 56.0                     | 9.0                            |
| AIRD-01-1R8 | 1.8        | K, M      | 0.004     | 56.0                     | 9.0                            |
| AIRD-01-2R2 | 2.2        | K, M      | 0.005     | 47.0                     | 9.0                            |
| AIRD-01-2R7 | 2.7        | K, M      | 0.005     | 47.0                     | 9.0                            |
| AIRD-01-3R3 | 3.3        | K, M      | 0.005     | 40.0                     | 9.0                            |
| AIRD-01-3R9 | 3.9        | K, M      | 0.006     | 36.0                     | 9.0                            |
| AIRD-01-4R7 | 4.7        | K, M      | 0.007     | 32.0                     | 9.0                            |
| AIRD-01-5R6 | 5.6        | K, M      | 0.007     | 29.0                     | 9.0                            |
| AIRD-01-6R8 | 6.8        | K, M      | 0.008     | 26.0                     | 9.0                            |
| AIRD-01-8R2 | 8.2        | K, M      | 0.009     | 24.5                     | 9.0                            |
| AIRD-01-100 | 10         | K         | 0.010     | 21.2                     | 9.0                            |
| AIRD-01-120 | 12         | K         | 0.011     | 19.0                     | 9.0                            |
| AIRD-01-150 | 15         | K         | 0.015     | 17.5                     | 7.2                            |
| AIRD-01-180 | 18         | K         | 0.016     | 16.5                     | 7.2                            |
| AIRD-01-220 | 22         | K         | 0.025     | 15.8                     | 5.5                            |
| AIRD-01-270 | 27         | K         | 0.030     | 14.4                     | 4.5                            |
| AIRD-01-330 | 33         | K         | 0.040     | 13.2                     | 4.0                            |
| AIRD-01-390 | 39         | K         | 0.046     | 11.8                     | 4.0                            |
| AIRD-01-420 | 42         | K         | 0.050     | 11.3                     | 3.8                            |
| AIRD-01-470 | 47         | K         | 0.062     | 11.0                     | 2.8                            |
| AIRD-01-560 | 56         | K         | 0.069     | 10.0                     | 2.8                            |
| AIRD-01-680 | 68         | K         | 0.077     | 8.9                      | 2.8                            |
| AIRD-01-820 | 82         | K         | 0.083     | 8.2                      | 2.8                            |
| AIRD-01-101 | 100        | K         | 0.095     | 7.5                      | 2.8                            |
| AIRD-01-121 | 120        | K         | 0.127     | 5.8                      | 2.0                            |
| AIRD-01-151 | 150        | K         | 0.181     | 5.6                      | 1.6                            |
| AIRD-01-181 | 180        | K         | 0.217     | 5.1                      | 1.6                            |
| AIRD-01-221 | 220        | K         | 0.240     | 4.3                      | 1.6                            |
| AIRD-01-271 | 270        | K         | 0.300     | 4.1                      | 1.6                            |
| AIRD-01-331 | 330        | K         | 0.336     | 3.8                      | 1.3                            |
| AIRD-01-391 | 390        | K         | 0.460     | 3.3                      | 1.0                            |
| AIRD-01-471 | 470        | K         | 0.636     | 3.2                      | 0.8                            |
| AIRD-01-561 | 560        | K         | 0.696     | 2.9                      | 0.8                            |
| AIRD-01-681 | 680        | K         | 0.700     | 2.9                      | 0.8                            |

## Test Conditions and equipments

Test frequency: 1KHz 0.1VRMS

DCR: QuadTech Milliohm meter

Isat: 10% inductance drops from initial value

Irms:  $\Delta$ T of 30°C temperature rise max

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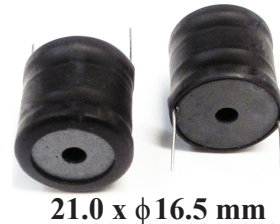
**Revised: 10.26.12**

# THRU-HOLE DRUM CORE POWER INDUCTORS

AIRD-01



RoHS  
Compliant



21.0 x  $\phi$  16.5 mm

## PART NUMBER IDENTIFICATION

AIRD-01-

### Inductance Code

Please refer to the  
Electrical Spec Table

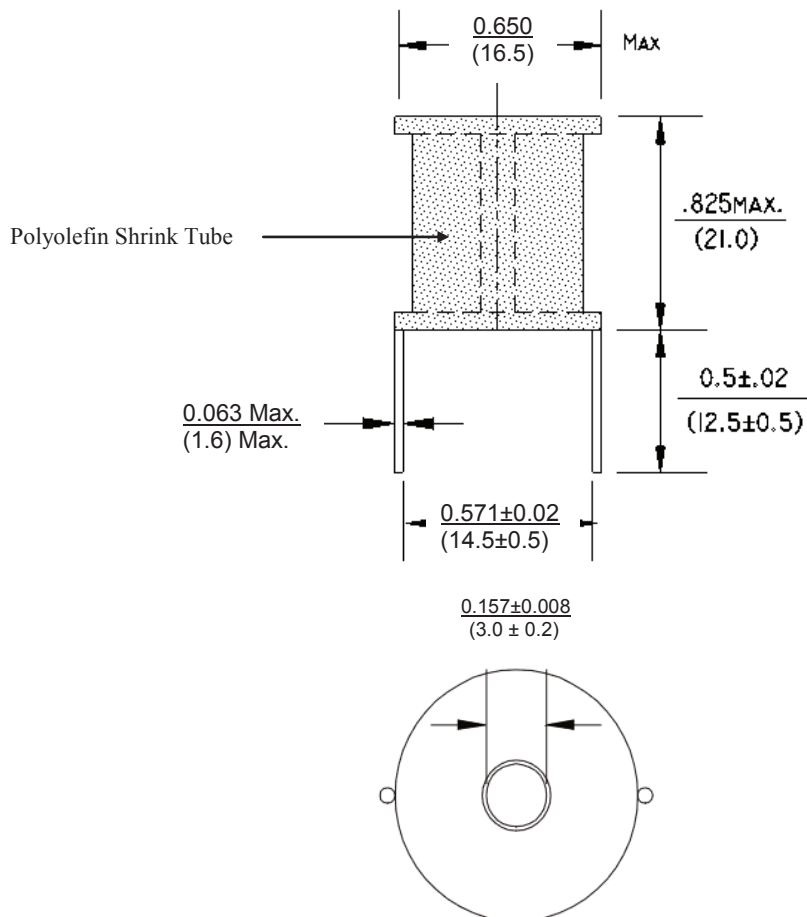
### Tolerance

M:  $\pm 20\%^*$

K:  $\pm 10\%^*$

\*M for L = 1.0 ~ 8.2 $\mu$ H  
K for L = 10.0 ~ 680 $\mu$ H

## OUTLINE DRAWING:



Dimension: inch (mm)

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